

Claims

1. An in-vehicle apparatus which displays at least a map relating to navigation and video content from a plurality of sources, characterized in that:

in a state of displaying said map, when a source operator for switching said sources is operated, the display of said map is switched to a display of video content,

in a state of displaying said video content, when said source operator is operated, the display of the video content is switched by sequentially and cyclically switching playback target sources in said plurality of sources,

in a state of displaying said video content, when a map operator for instructing displaying of said map, the display of said video content is switched to the display of said map, and

in a state of displaying said map, when said map operator is operated, the display of said map is switched to the display of said video content.

2. The in-vehicle apparatus as claimed in Claim 1, characterized in that:

the display of said map, the display of said video content and a dual screen display in which the display of said map and the display of said video content are arranged are sequentially and cyclically switched by an operation of a display switching operator.

3. The in-vehicle apparatus as claimed in Claim 2,

characterized in that:

setting of a size of a region for displaying said map and/or a size of a region for displaying said video content in said dual screen display is accepted, and

5 said dual screen display is formed depending on said setting.

4. The in-vehicle apparatus as claimed in Claim 3, characterized in that:

10 said setting is accepted for each of said sources, and

 said dual screen display is formed depending on a setting corresponding to each source.

15 5. The in-vehicle apparatus as claimed in Claim 4, characterized in that:

 whether or not an immediately preceding display was said dual screen display is recorded and held for each of said sources,

20 upon displaying of each source by said source operator, said video content or said dual screen display is selectively displayed depending on the record.

6. An in-vehicle apparatus which accepts a selection
25 from a hierarchical menu to provide content in accordance with an operation through a touch panel and an operation through a remote commander, characterized in that:

 said remote commander includes:

30 a focus switching operator which switches a focus in a menu of a same hierarchy;

 a hierarchy upward operator which instructs

switching of the focus to an upper hierarchy; and

a selecting operator which instructs
selecting of a focused menu,

said in-vehicle apparatus displays an upper
5 hierarchy menu relating to said hierarchical menu and a
lower hierarchy menu corresponding to a selection among
said upper hierarchy menu simultaneously,

in the operation through said touch panel,
a selection regarding both of said upper
10 hierarchy menu and said lower hierarchy menu configured
to be displayed simultaneously, and

a display of said lower hierarchy menu is
switched to a menu corresponding to a selected upper
hierarchy menu in accordance with a selection of said
15 upper hierarchy menu, and

in the operation through said remote commander,
after switching the focus from said lower
hierarchy to the upper hierarchy corresponding thereto by
an operation of said hierarchy upward operator, the focus
20 is switched in said upper hierarchy menu by an operation
of said focus switching operator, and

the display of said lower hierarchy menu to a
display of a menu corresponding to said upper hierarchy
menu focused by an operation of said selecting operator.

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7. The in-vehicle apparatus as claimed in Claim 6,
characterized in that:

in a case where said upper hierarchy or lower
hierarchy menu is beyond display in a displayable area, a
30 menu instructing scrolling is additionally displayed,

in the operation through said touch panel, said

menu beyond display is displayed by scrolling by an
operation of said menu instructing scrolling, and
in the operation through said remote commander,
said menu beyond display is displayed by scrolling by the
5 operation of said focus switching operator.

8. The in-vehicle apparatus as claimed in Claim 6,
characterized in that:

said focus switching operator and said selecting
10 operator function as a press-operable rotary operator,
the operation of said focus switching operator is a
rotational operation of said rotary operator, and
the operation of said selecting operator is a
pressing operation of said rotary operator.

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9. An in-vehicle apparatus having at least a
navigation function and a content provision function and
switching action by an operation of a remote commander,
characterized in that:

20 said remote commander includes:

a main rotary operator which is at least
press-operable and a main backward operator which
instructs to go back to an original condition from a
condition set by said main rotary operator, provided on a
25 main operation surface; and

a sub rotary operator which is at least
press-operable and a sub backward operator which
instructs to go back to an original condition from a
condition set by said sub rotary operator, provided on a
30 side surface of said main operation surface, and

said in-vehicle apparatus:

displays a menu relating to switching action between said navigation function and said content provision function to accept operations of said main rotary operator and said main backward operator, and

5 accepts an operation relating to said content provision function among the operation accepted via said main rotary operator and said main backward operator also via operations of said sub rotary operator and said sub backward operator.

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10. The in-vehicle apparatus as claimed in Claim 9, characterized in that:

 said content is music content, and

 the music content to be provided to a user is

15 switched by the operation of said sub rotary operator.

11. The in-vehicle apparatus as claimed in Claim 10, characterized in that:

 a list of music content providable to said user is
20 displayed by a pressing operation of said sub rotary operator, and

 a focus is switched in said list by a rotational operation of said sub rotary operator while said list is displayed, and the music content focused is provided to
25 said user by a pressing operation of said sub rotary operator.

12. An content providing method in an apparatus which displays at least a map relating to navigation and video
30 content from a plurality of sources, said method characterized in that:

in a state of displaying said map, when a source operator for switching said sources is operated, the display of said map is switched to a display of video content,

5 in a state of displaying said video content, when said source operator is operated, the display of the video content is switched by sequentially and cyclically switching playback target sources in said plurality of sources,

10 in a state of displaying said video content, when a map operator for instructing displaying of said map, the display of said video content is switched to the display of said map, and

in a state of displaying said map, when said map operator is operated, the display of said map is switched to the display of said video content.

13. A content providing method in which a selection from a hierarchical menu is accepted to provide content in accordance with an operation through a touch panel and an operation through a remote commander, characterized in that:

said remote commander includes:

25 a focus switching operator which switches a focus in a menu of a same hierarchy;

a hierarchy upward operator which instructs switching of the focus to an upper hierarchy; and

a selecting operator which instructs selecting of a focused menu,

30 said content providing method allows to display an upper hierarchy menu relating to said hierarchical menu

and a lower hierarchy menu corresponding to a selection among said upper hierarchy menu simultaneously,

in the operation through said touch panel,

5 a selection regarding both of said upper hierarchy menu and said lower hierarchy menu configured to be displayed simultaneously, and

a display of said lower hierarchy menu is switched to a menu corresponding to a selected upper hierarchy menu in accordance with a selection of said

10 upper hierarchy menu, and

in the operation through said remote commander,

after switching the focus from said lower hierarchy to the upper hierarchy corresponding thereto by an operation of said hierarchy upward operator, the focus

15 is switched in said upper hierarchy menu by an operation of said focus switching operator, and

the display of said lower hierarchy menu to a display of a menu corresponding to said upper hierarchy menu focused by an operation of said selecting operator.

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14. A content providing method in an apparatus having at least a navigation function and a content provision function and switching action by an operation of a remote commander, characterized in that:

25 said remote commander includes:

a main rotary operator which is at least press-operable and a main backward operator which instructs to go back to an original condition from a condition set by said main rotary operator, provided on a
30 main operation surface; and

a sub rotary operator which is at least

press-operable and a sub backward operator which instructs to go back to an original condition from a condition set by said sub rotary operator, provided on a side surface of said main operation surface, and

5 said in-vehicle apparatus:

 displays a menu relating to switching action between said navigation function and said content provision function to accept operations of said main rotary operator and said main backward operator, and

10 accepts an operation relating to said content provision function among the operation accepted via said main rotary operator and said main backward operator also via operations of said sub rotary operator and said sub backward operator.